



Image may differ from product. See technical specification for details.

## 22320 E

### Spherical roller bearing with relubrication features

Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

# Overview

## Dimensions

Bore diameter	3.937 in
Outside diameter	8.465 in
Width	2.874 in

## Performance

Basic dynamic load rating	190 413 lbf
Basic static load rating	213 568 lbf
Reference speed	2 400 r/min
Limiting speed	3 000 r/min
SKF performance class	SKF Explorer

## Properties

Number of rows	2
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Tolerance class for dimensions	Normal
Tolerance class for run-out	P5
Sealing	Without
Lubricant	None
Relubrication feature	With

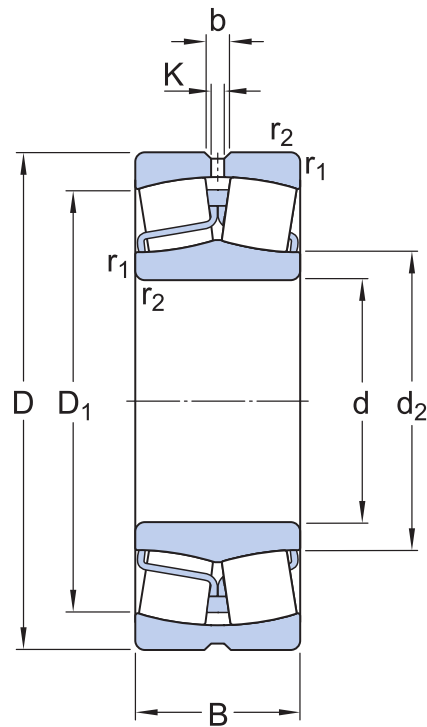
## Logistics

Product net weight	28.373 lb
eClass code	23-05-09-11
UNSPSC code	31171510

# Technical specification

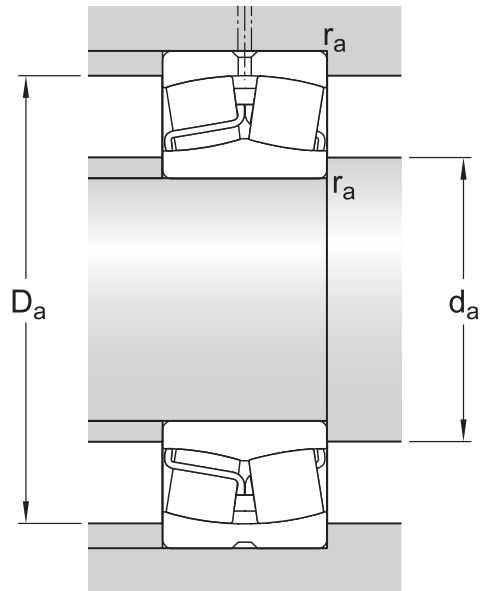
Bore type

Cylindrical



## Dimensions

$d$	3.937 in	Bore diameter
$D$	8.465 in	Outside diameter
$B$	2.874 in	Width
$d_2$	$\approx 5.118$ in	Shoulder diameter of inner ring
$D_1$	$\approx 7.244$ in	Shoulder/recess diameter of outer ring
$b$	0.437 in	Width of lubrication groove
$K$	0.236 in	Diameter of lubrication hole
$r_{1,2}$	min. 0.118 in	Chamfer dimension



## Abutment dimensions

$d_a$	min. 4.488 in	Diameter of shaft abutment
$D_a$	max. 7.913 in	Diameter of housing abutment
$r_a$	max. 0.098 in	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	190 413 lbf
Basic static load rating	$C_0$	213 568 lbf
Fatigue load limit	$P_u$	19 783 lbf
Reference speed		2 400 r/min
Limiting speed		3 000 r/min
Limiting value	e	0.33
Calculation factor	$Y_1$	2
Calculation factor	$Y_2$	3
Calculation factor	$Y_0$	2

## Tolerance class

Dimensional tolerances	Normal
Radial run-out	P5

## More Information

### Product details

[Designs and variants](#)

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[General bearing specifications](#)

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[Loads](#)

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[Temperature limits](#)

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[Permissible speed](#)

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[Design considerations](#)

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[Mounting](#)

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[Designation system](#)

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### Engineering information

[Principles of rolling bearing selection](#)

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[General bearing knowledge](#)

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[Bearing selection process](#)

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[Bearing failure and how to prevent it](#)

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### Tools

[SimPro Quick](#)

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[SKF Product select](#)

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[SKF Product select](#)

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[LubeSelect for SKF greases](#)

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[Drive-up Method Program](#)

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[Heater selection tool](#)

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[Oil Injection Method Program](#)

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[Tool and Accessory Selector for sleeves and shafts](#)

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